# A METHOD AND SYSTEM FOR PARALLEL HASH TRANSFORMATION FOR AN ADDRESS INPUT

## ABSTRACT OF THE DISCLOSURE

5        A method for performing a parallel hash transformation in a network device to generate a hash pointer for an address input. The method includes the step of receiving an address input. The address input is apportioned among a plurality of hashing units. The hashing units are configured to operate in parallel. A hash transformation is executed on the apportioned

10      address inputs in parallel, resulting in a corresponding plurality of hashing unit outputs. The hashing unit outputs are combined to generate a hash result corresponding to the address input.